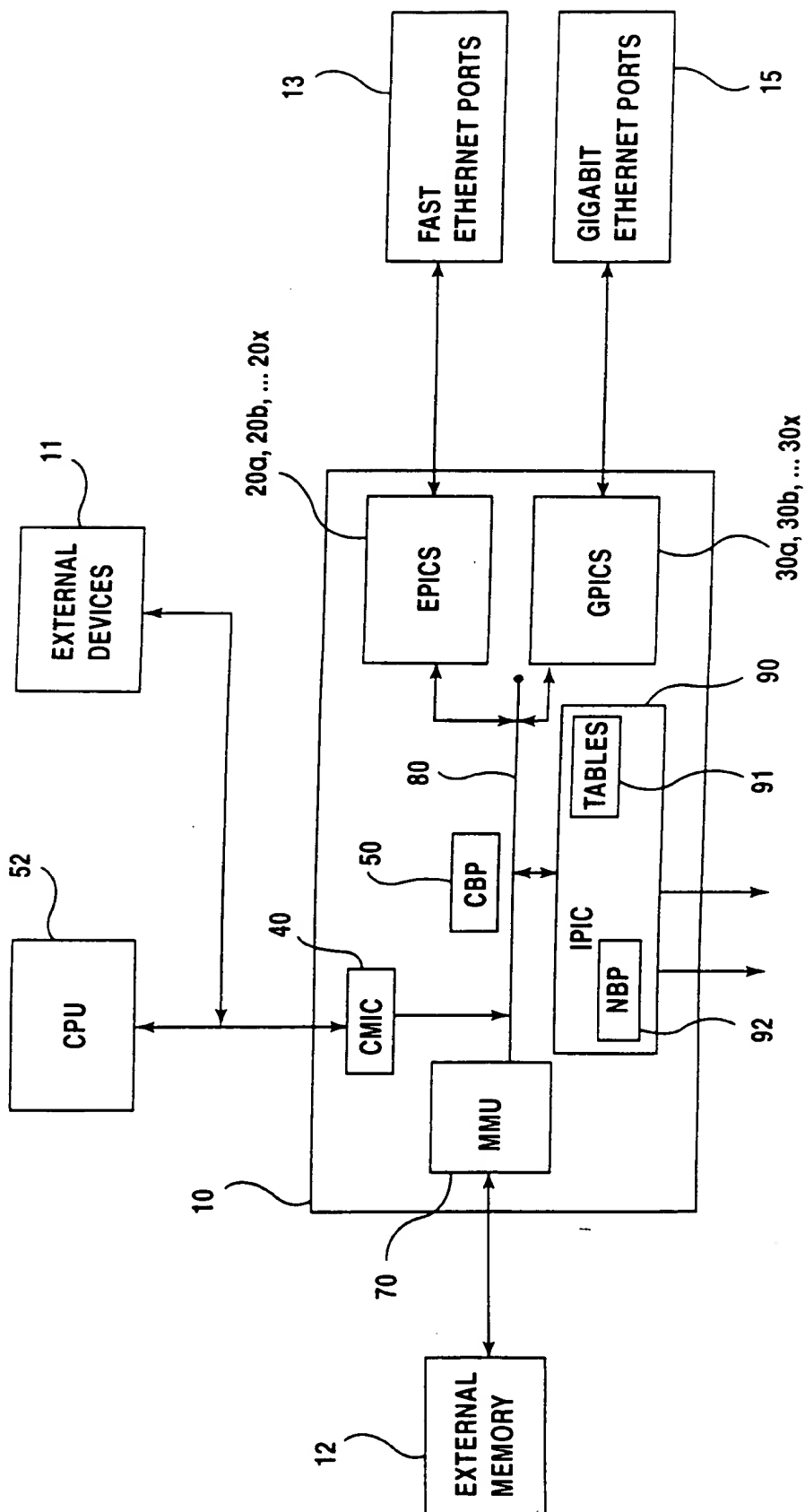


Fig.1



00000000000000000000000000000000

Fig.3

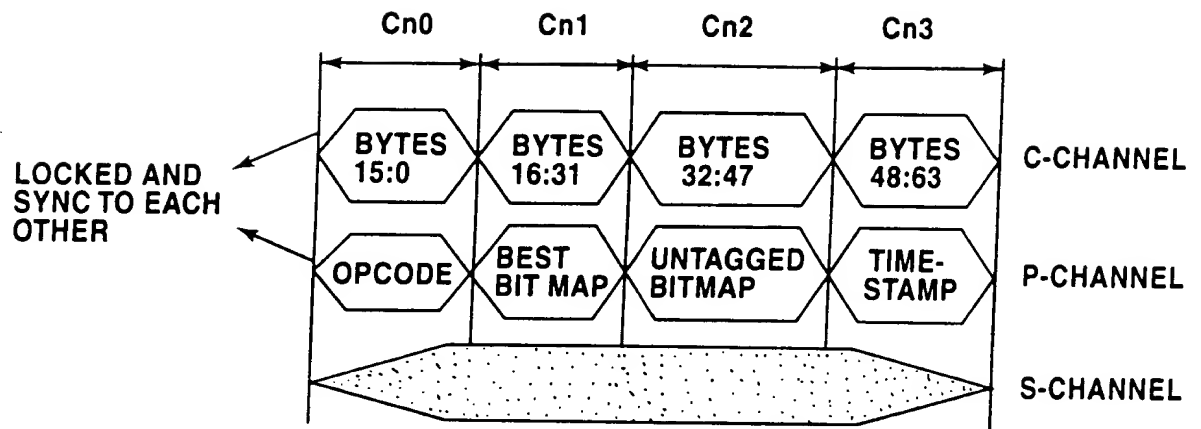


Fig.4a

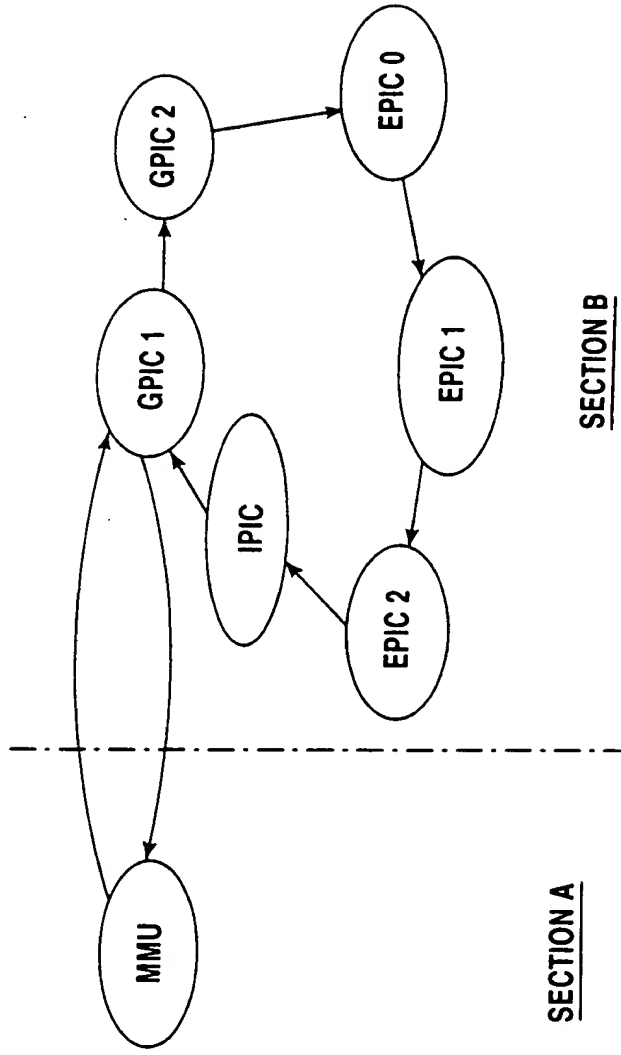
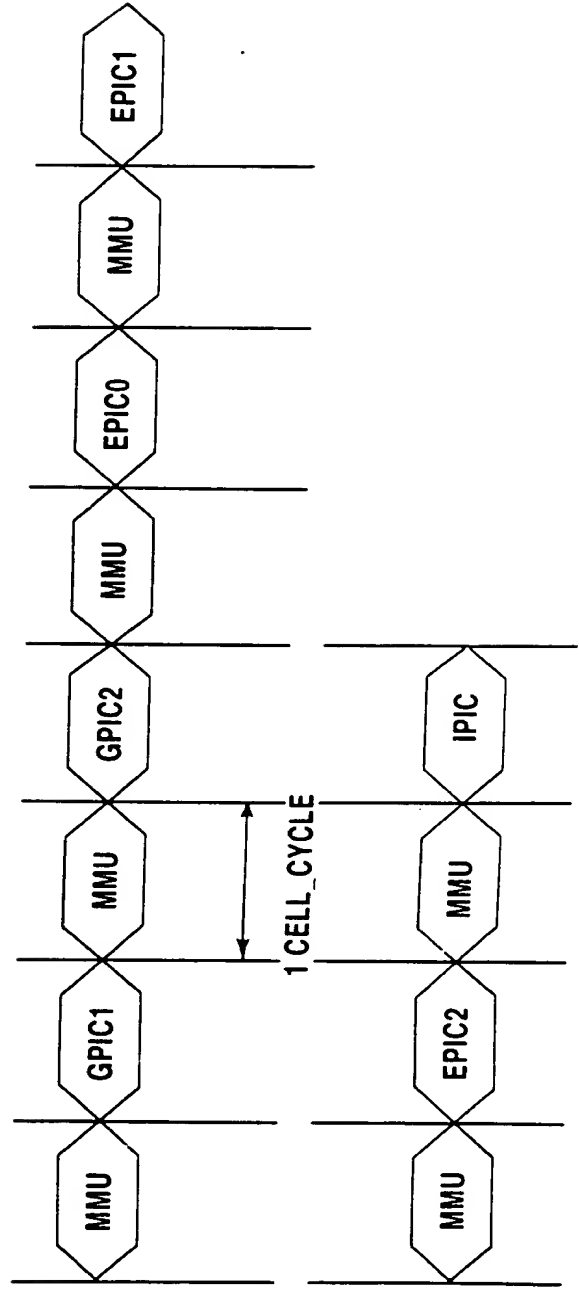


Fig.4b



[illegible]

PROTOCOL CHANNEL MESSAGES

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
OPC ODE	IP IPX	RESE RVED	NXT CELL	SRC DEST PORT			COS		J	S	E	CRC	P	O	LEN

62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
MODULE ID BITMAP															

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
R	Bc / Mc PORTBITMAP														

62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32		
PF M	NEW IP CHECKSUM								M	MT-MOD ID			T	TGID		MOD OPCODE	c

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
U	UNTAGGED PORTBITMAP / SRC PORT NUMBER (bit0...5)														

62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
RSVD		MATCHED FILTER		VLAN ID						SRC PORT			REMOTE PORT		

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
CPU OPCODES									TIME STAMP						

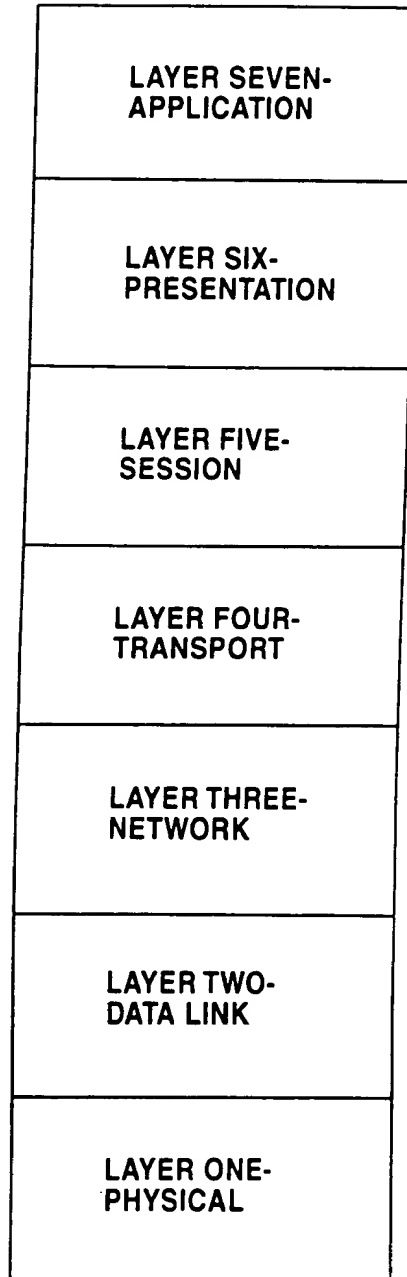
62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
R	L3 PORT BITMAP														

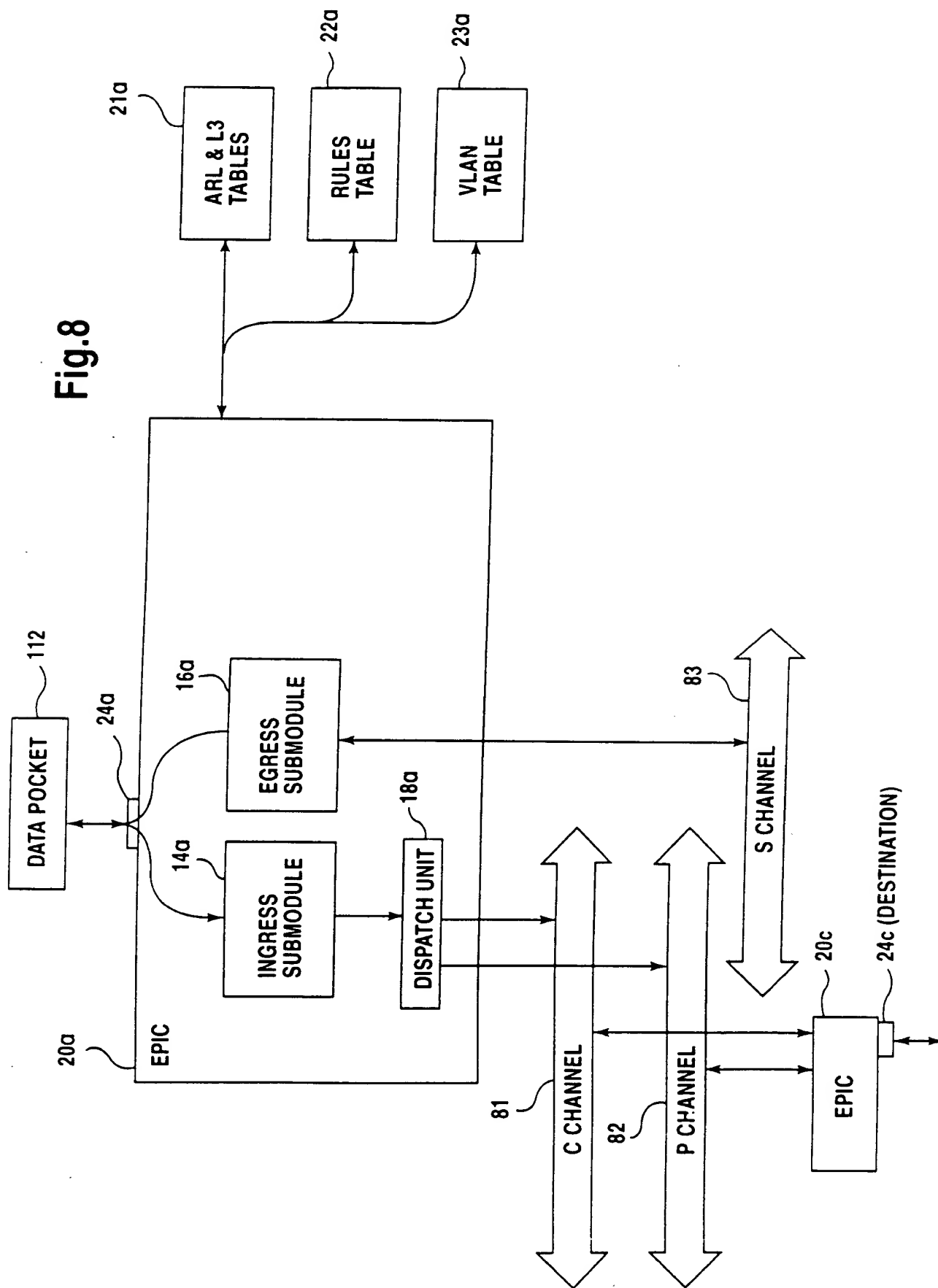
Fig.6

SIDE BAND CHANNEL MESSAGES																
30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0	
OPCODE			DEST PORT / DESTINATION DEV ID			SRC PORT			DATA LEN				E	EC ODE	COS	C
ADDRESS																
DATA																

Fig.7

PRIOR ART





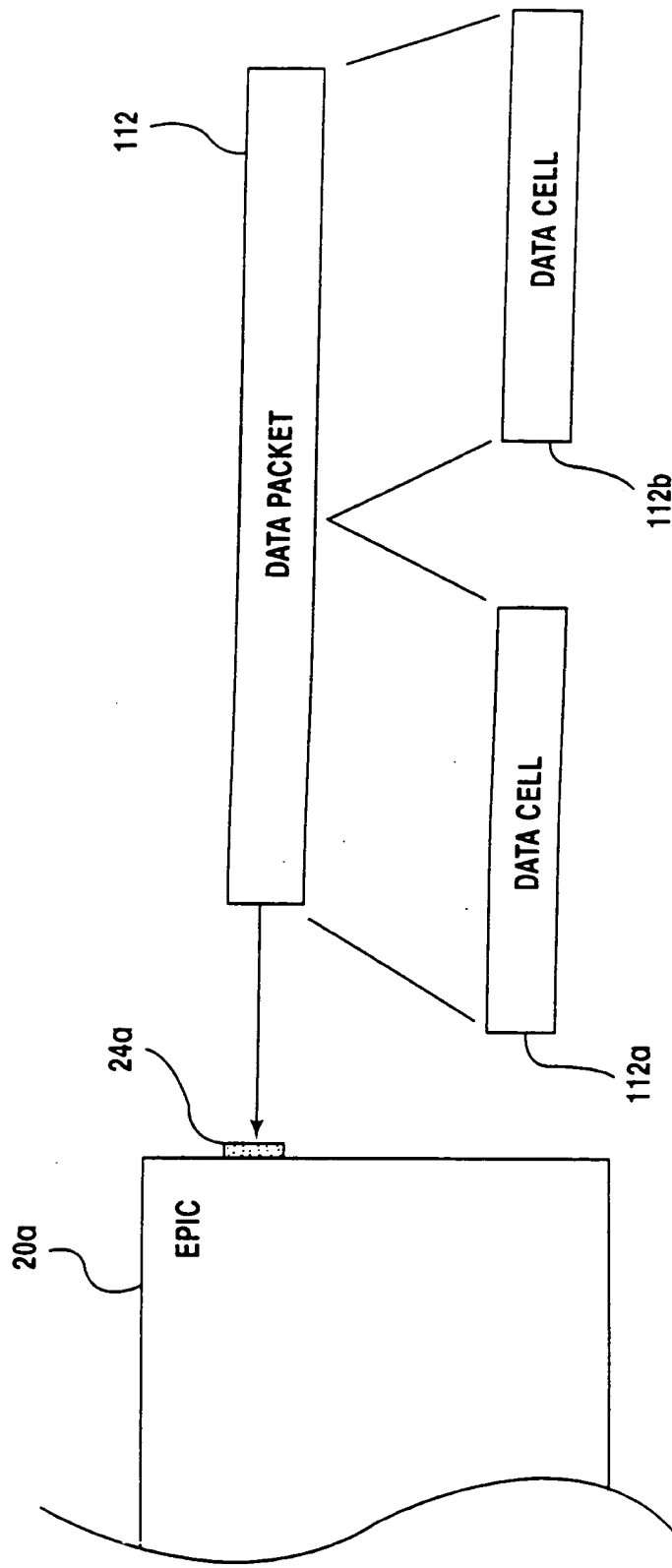


Fig.9

Fig.10

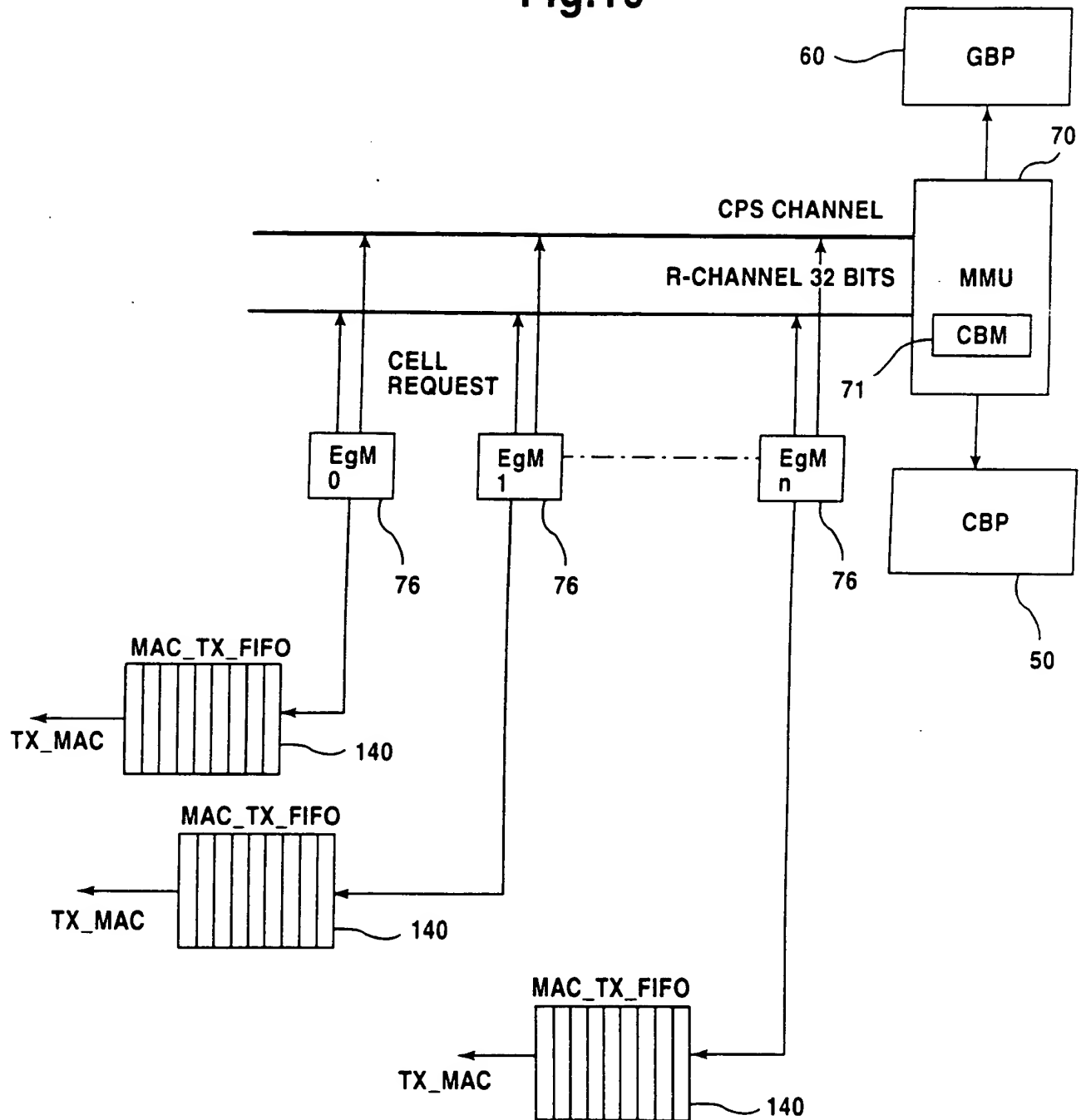


Fig.11

LINE 0 →	FC LC BC/MC Cpy_cnt (5b) Cell_length (7b) CRC (2b) NC_header (16b) Src Count (6) IPX IP Time_Stamp (14b) O bits (2b) P NextCellLen (2b) CpuOpcode (4b) Cell_data (0-9B)
LINE 1 →	Cell_data (10-27) Bytes
LINE 2 →	Cell_data (28-45) Bytes
LINE 3 →	Cell_data (45-63) Bytes

Fig.12

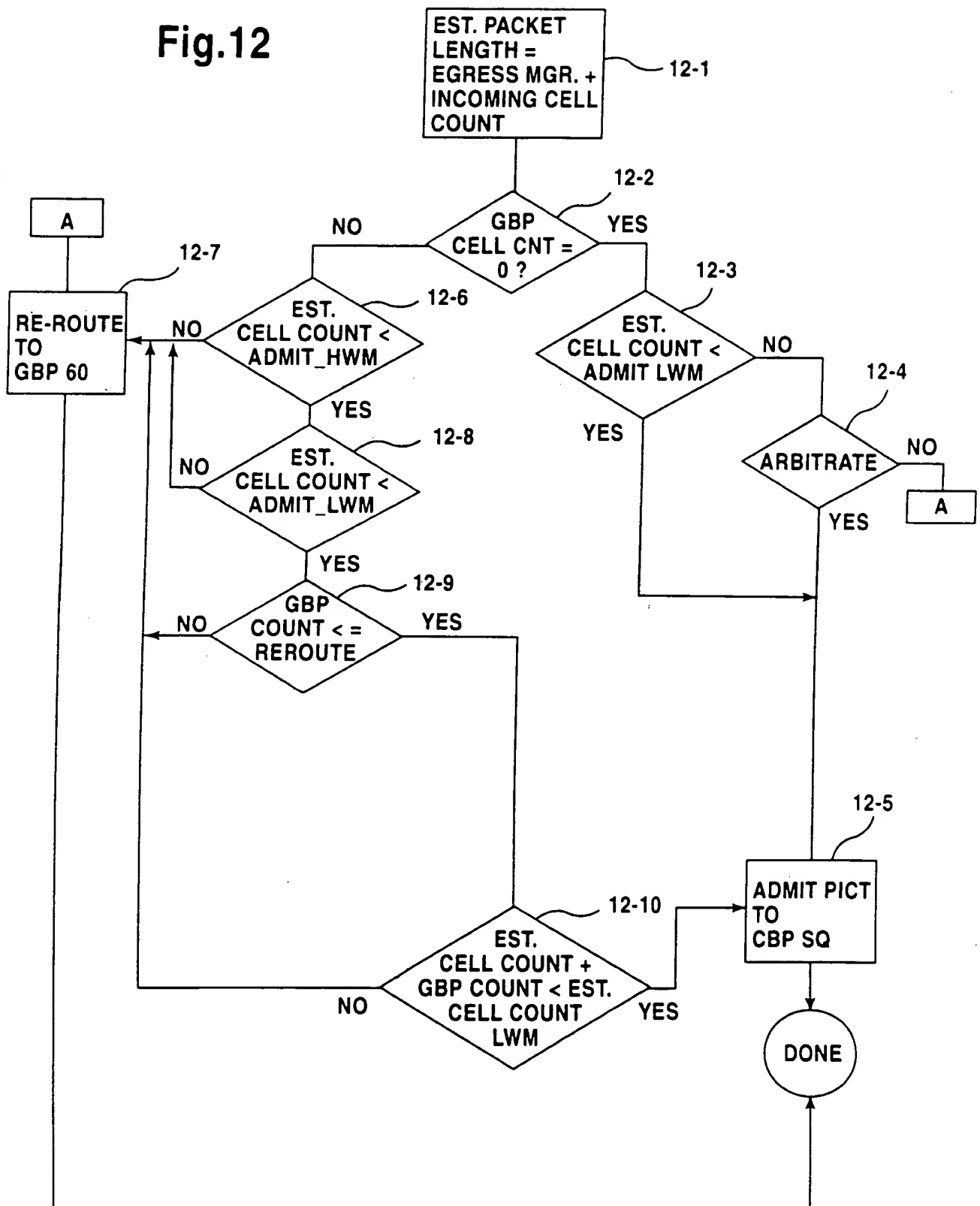


Fig.13

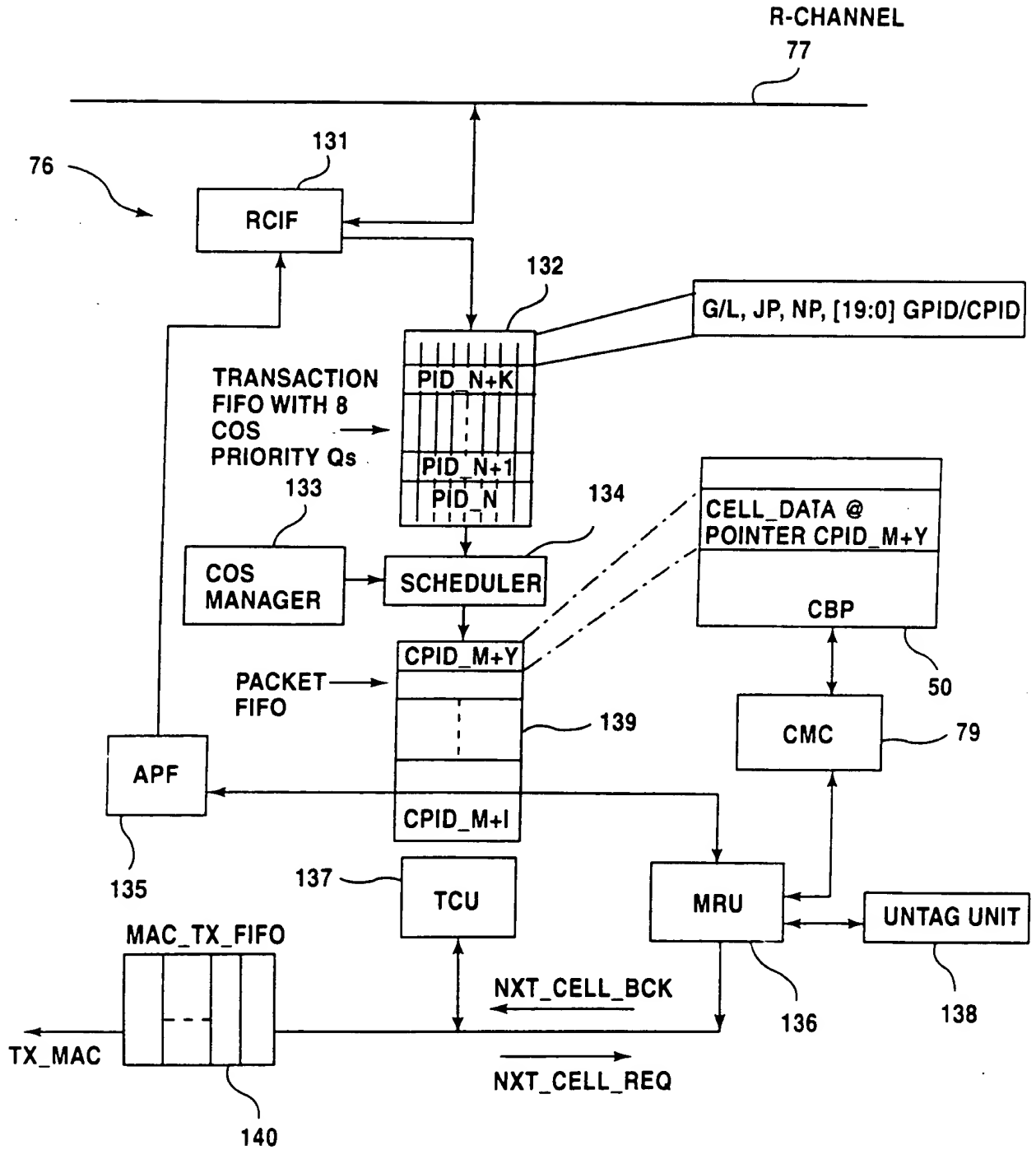


Fig.14

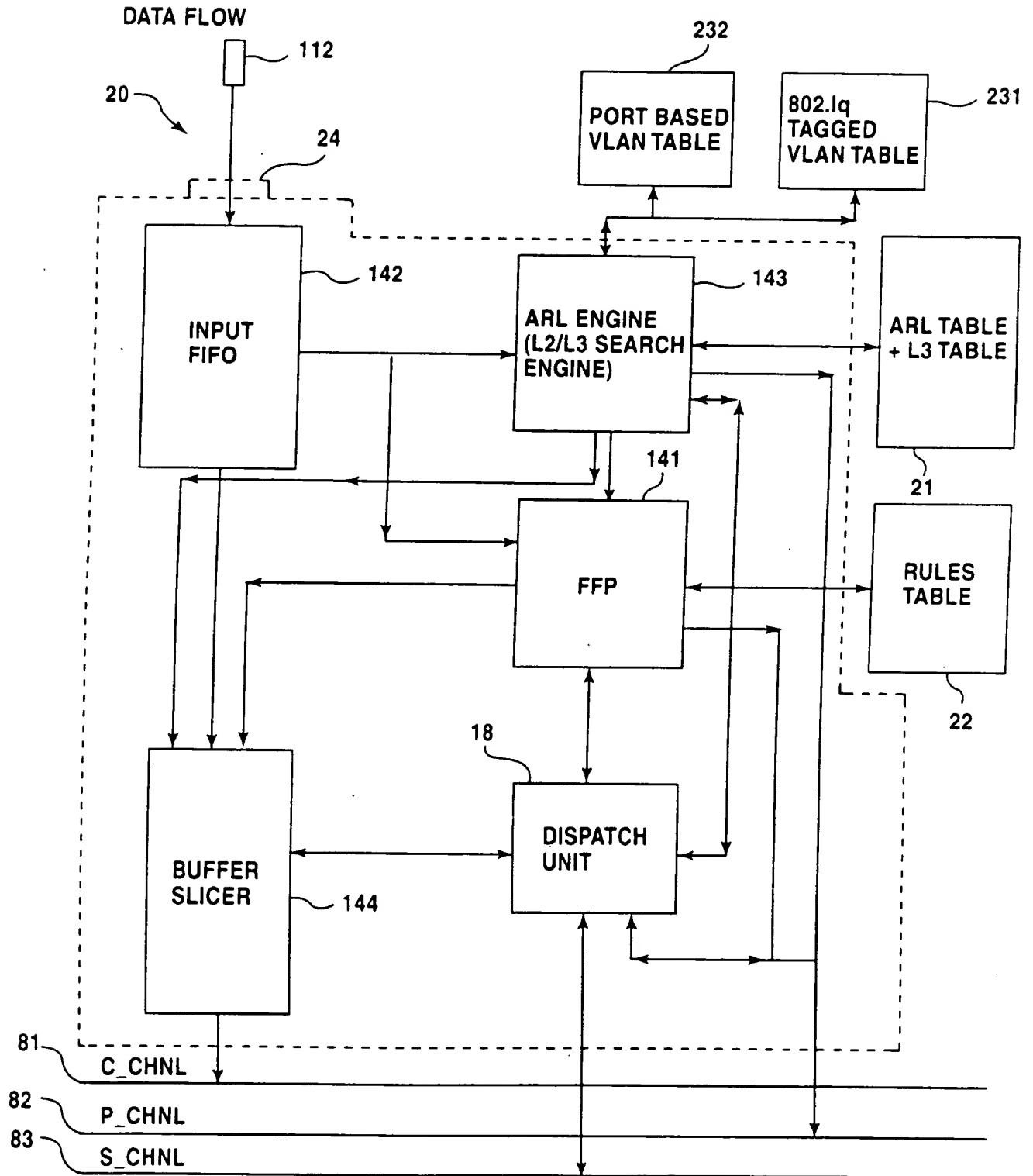


Fig.15

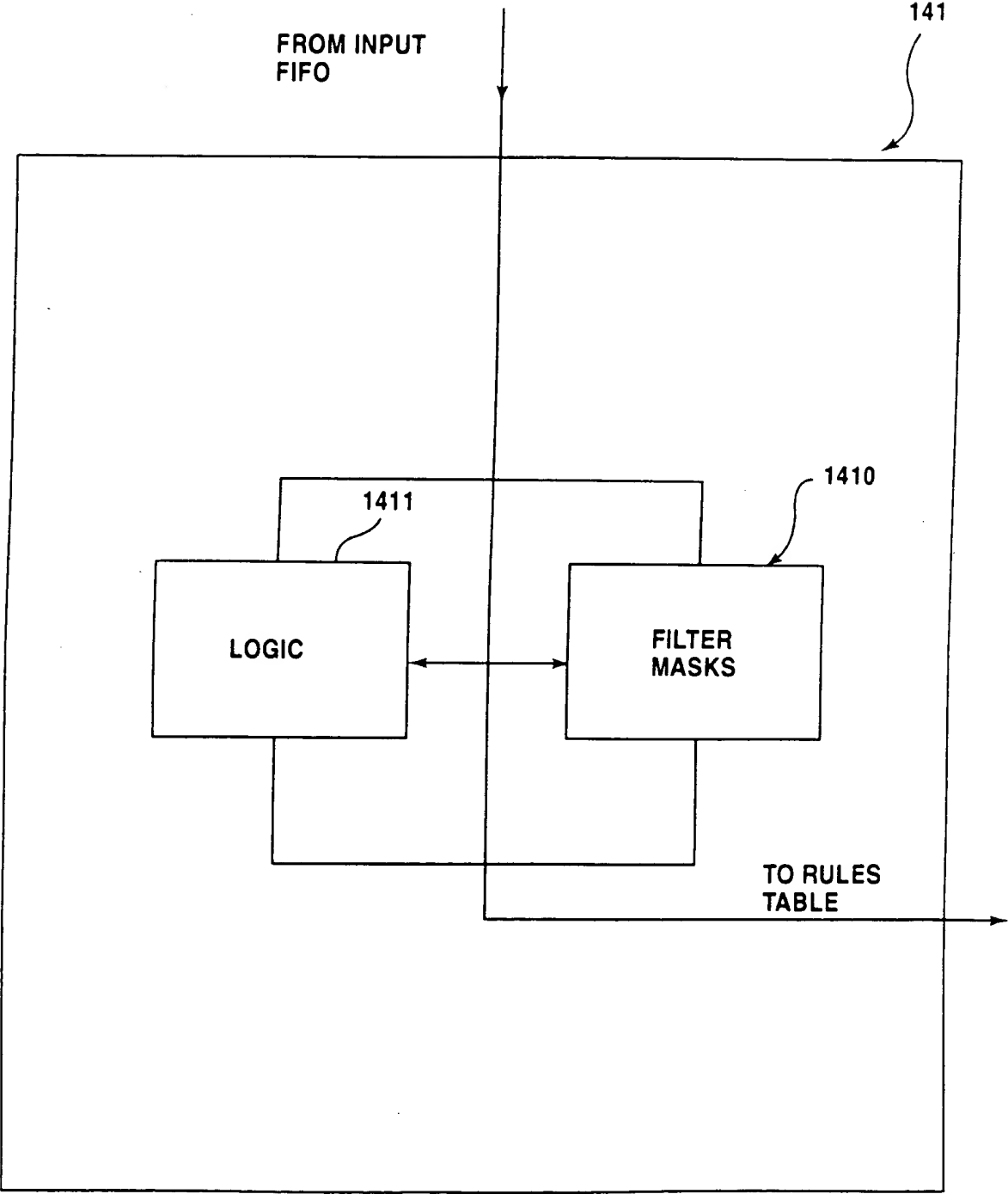


Fig.16

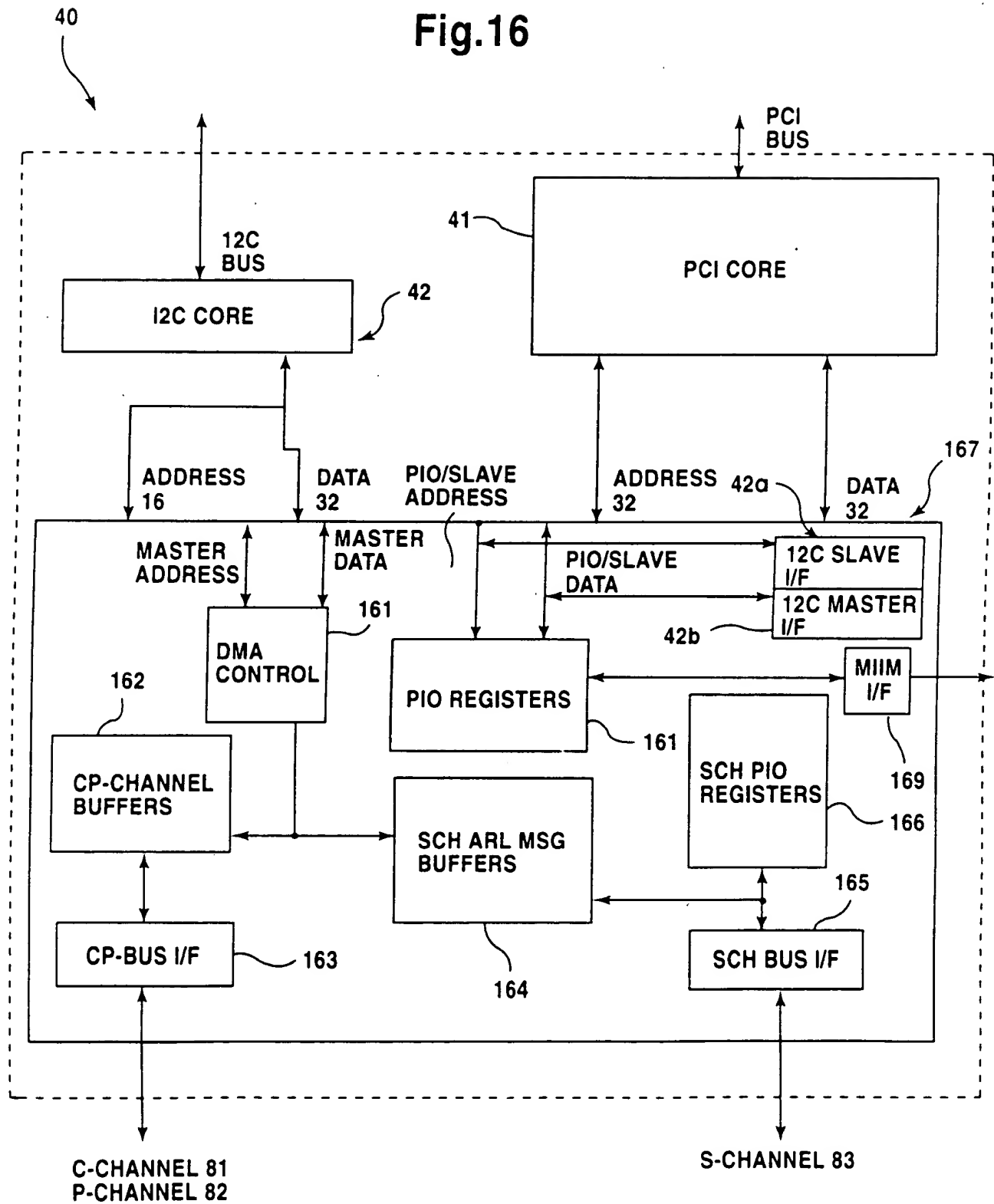


Fig.17

FFP PROGRAMMING FLOW CHART

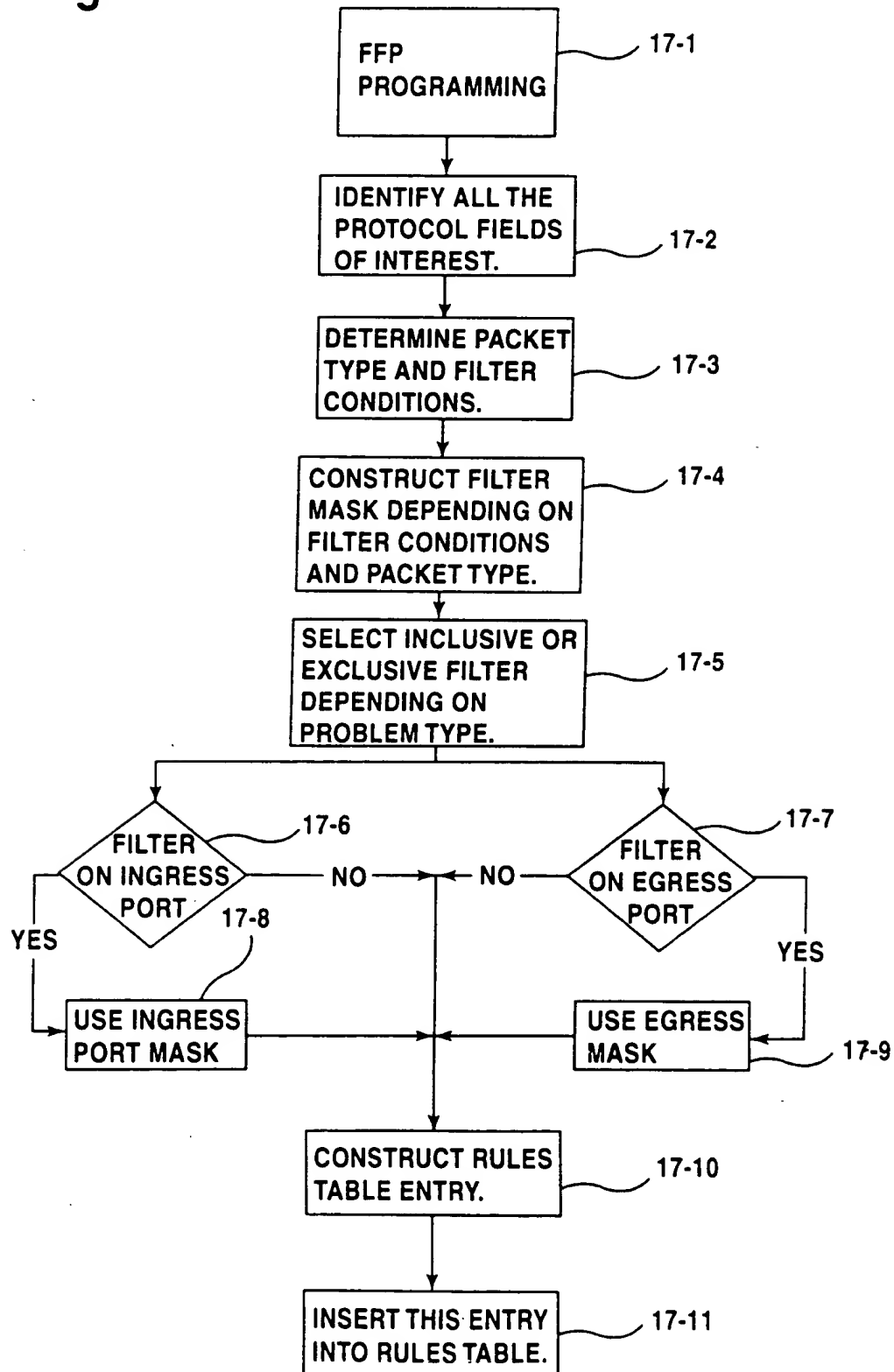
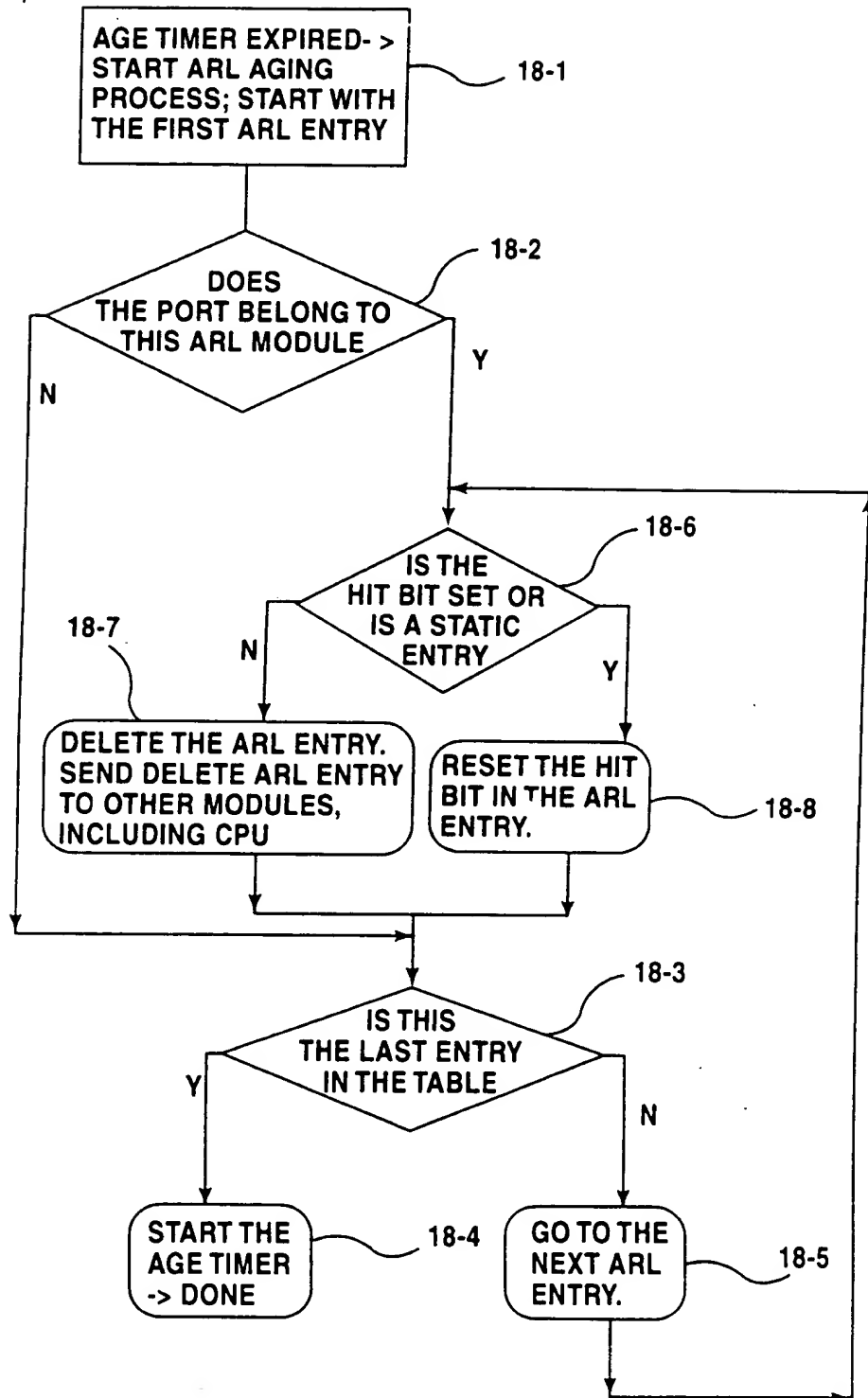
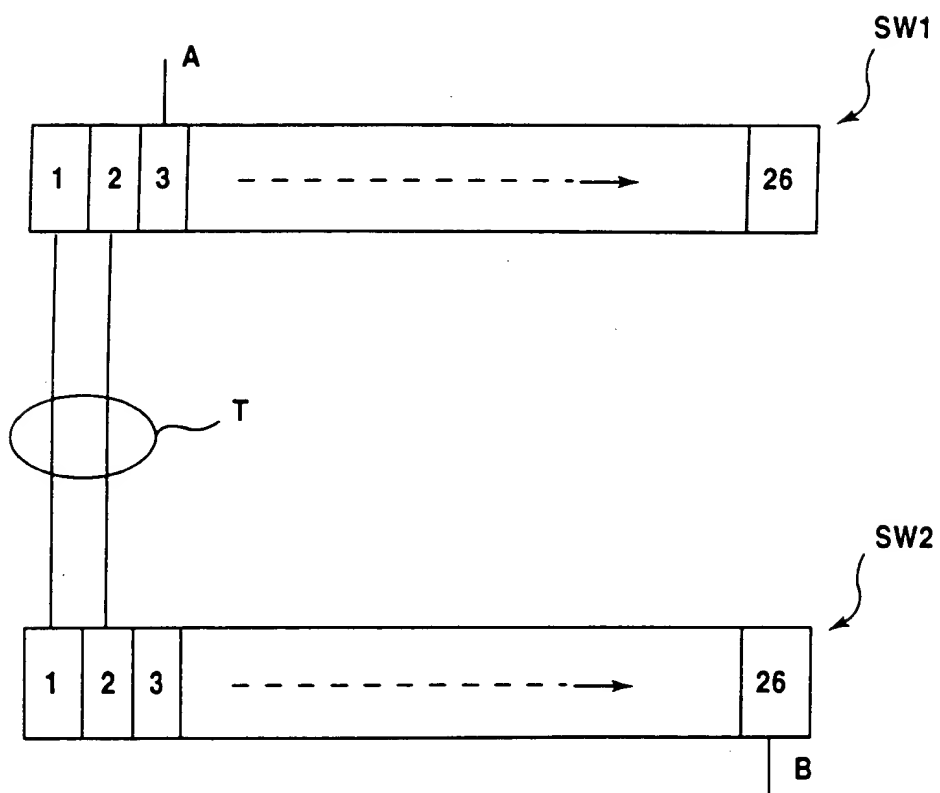


Fig.18



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[illegible]

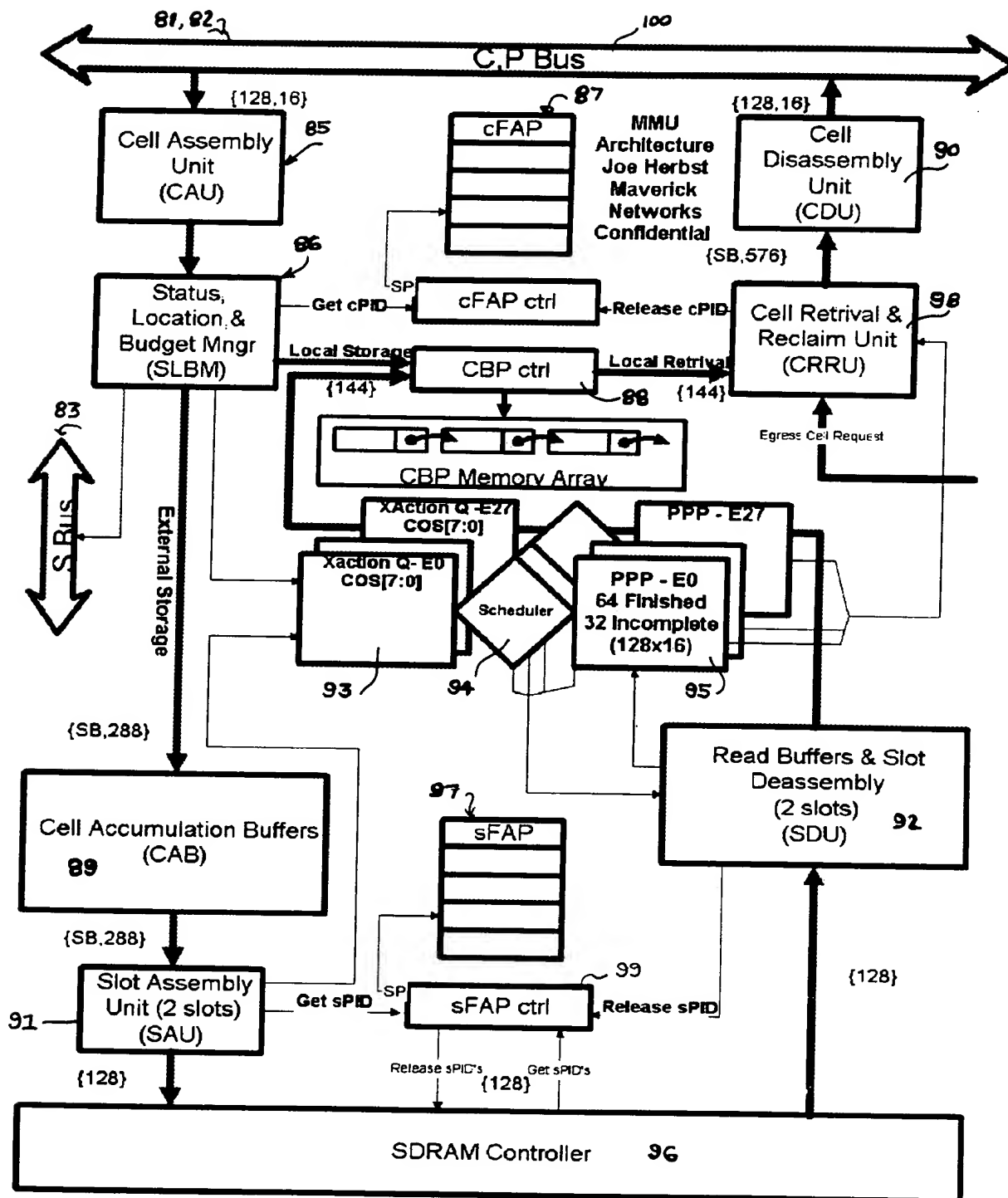


FIGURE 20

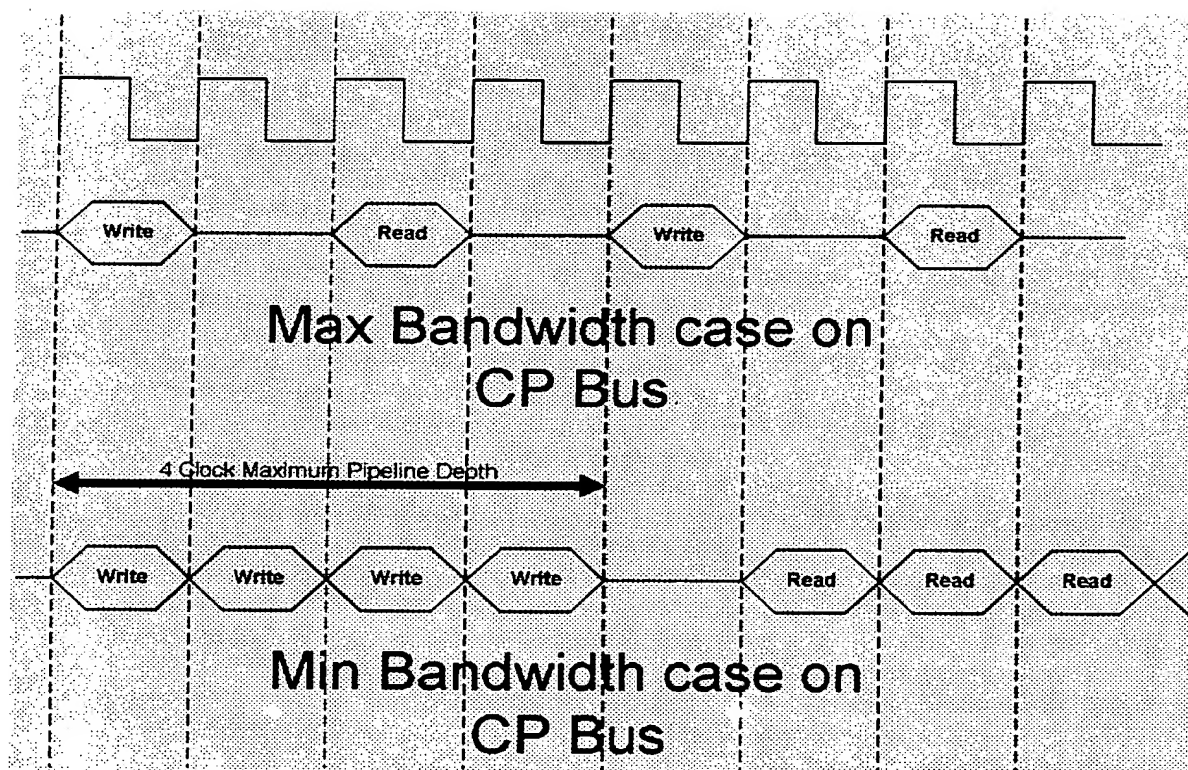


Figure 21

SDRAM Scheduler to SDU Data Transfer

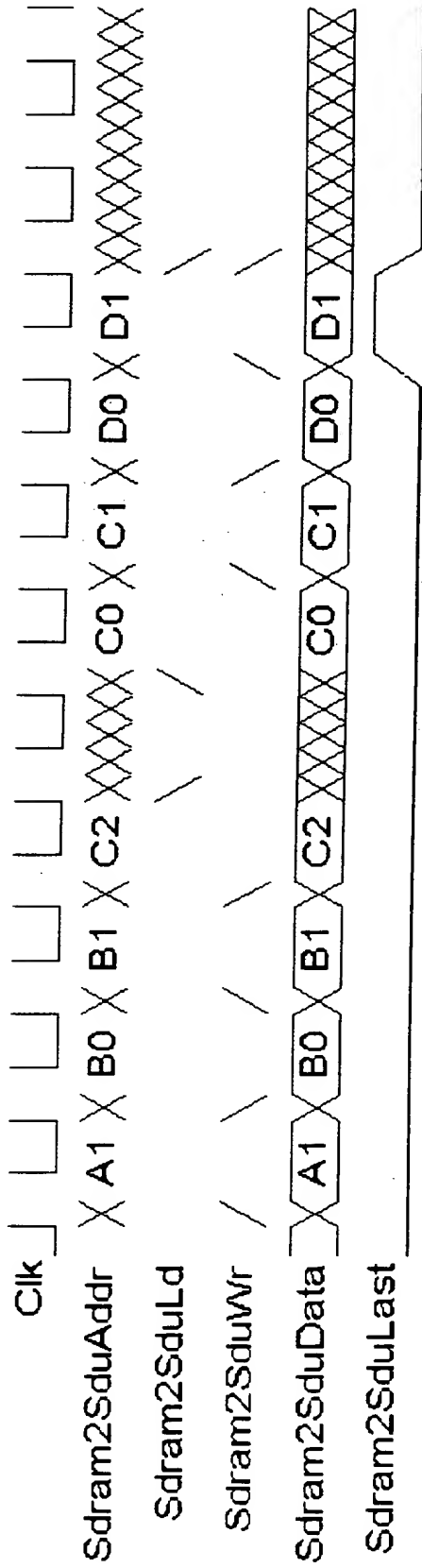


FIGURE 24

FIGURE 25

SDRAM Controller Interface Timing

SDRAM Controller Command Input FIFO

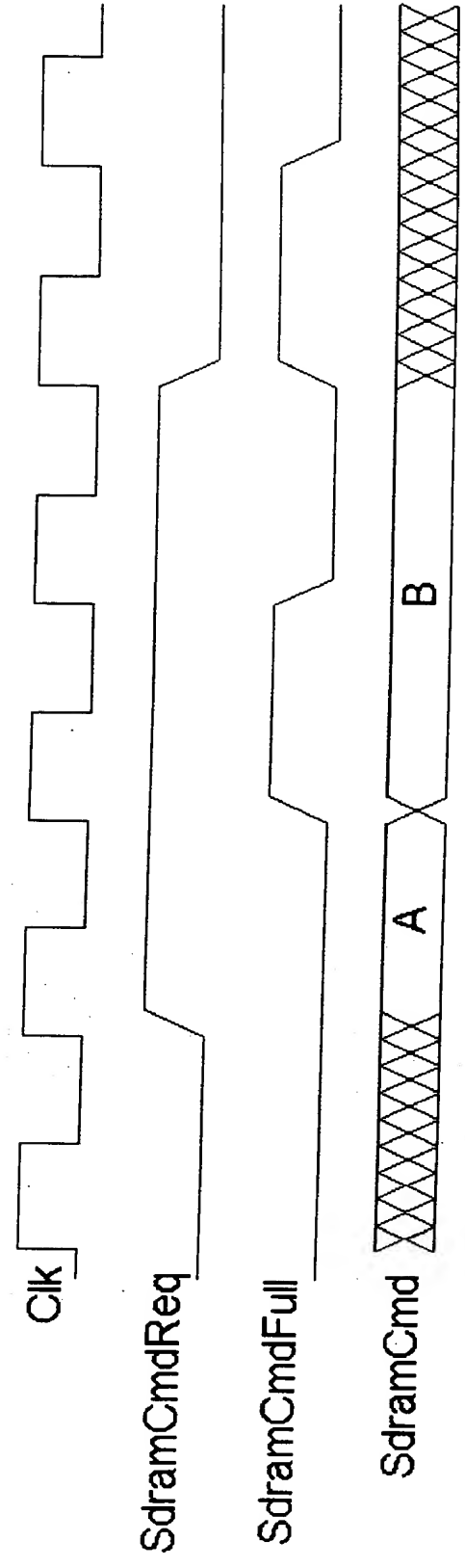
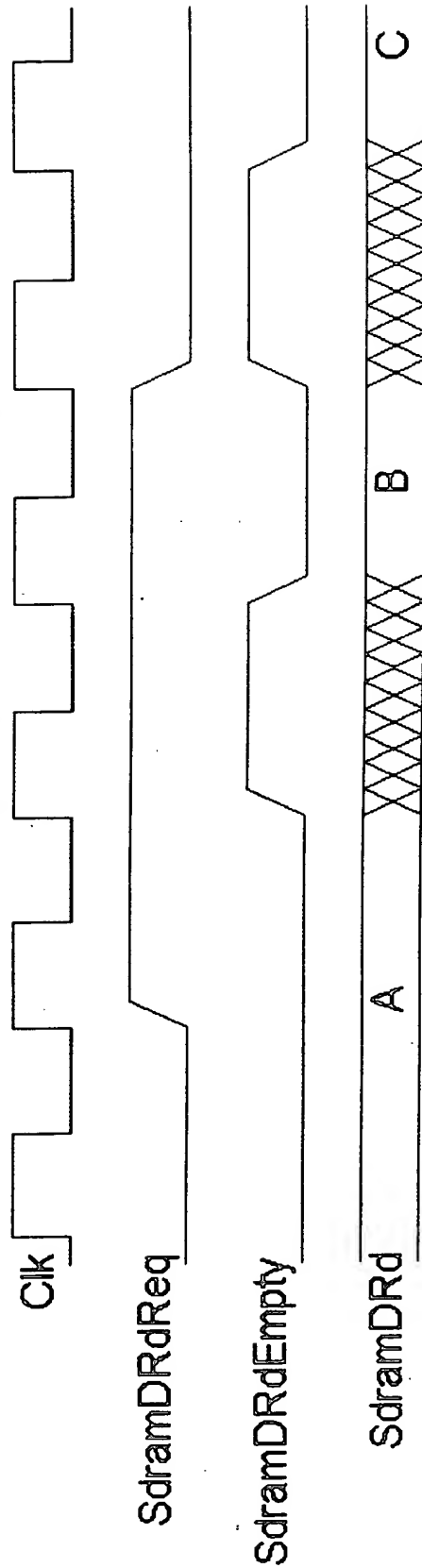


FIGURE 27

SDRAM Controller Data Read FIFO



Field	Left	Right	Bits
Src	310	306	5
CPUOpcode	305	302	4
BC/MC Bitmap	301	270	32
Cos	269	267	3
P	266	266	1
FC (S)	265	265	1
LC (E)	264	264	1
CRC	263	262	2
Len (0 = 64)	261	256	6
O	255	254	2
BC/MC	253	253	1
Copy Count (0 = 32)	252	248	5
Untagged Bitmap	247	216	32
IP	215	215	1
IPX	214	214	1
Time Stamp	213	200	14
Cell Data Bytes 24-0	199	0	200
Total			311

FIGURE 28

Cell Size	SAU Words	SDRAM Words
0 0	1	2
0 1	1	3
1 0	2	4
1 1	2	5

Figure 29

Field	Left	Right	Bits	First Only
Last Slot	313	313	1	X
Next Slot ID	312	297	16	X
Copy Count	296	292	5	X
CPUOpcode	291	288	4	
Cell Size	287	286	2	
P	285	285	1	
FC	284	284	1	
LC	283	283	1	
CRC	282	281	2	
Len	280	275	6	
O	274	273	2	
BC/MC	272	272	1	
IP	271	271	1	
IPX	270	270	1	
Time Stamp	269	256	14	

Figure 30

00000000000000000000000000000000

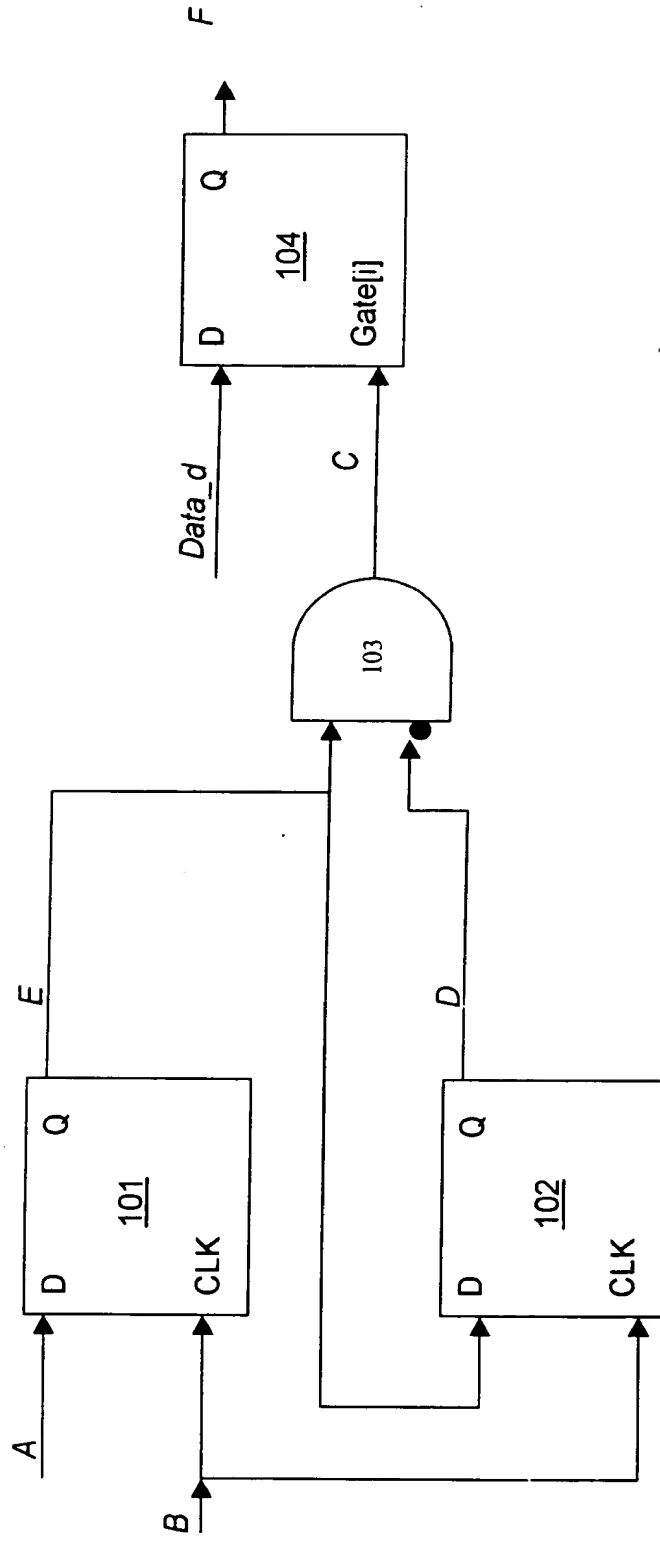
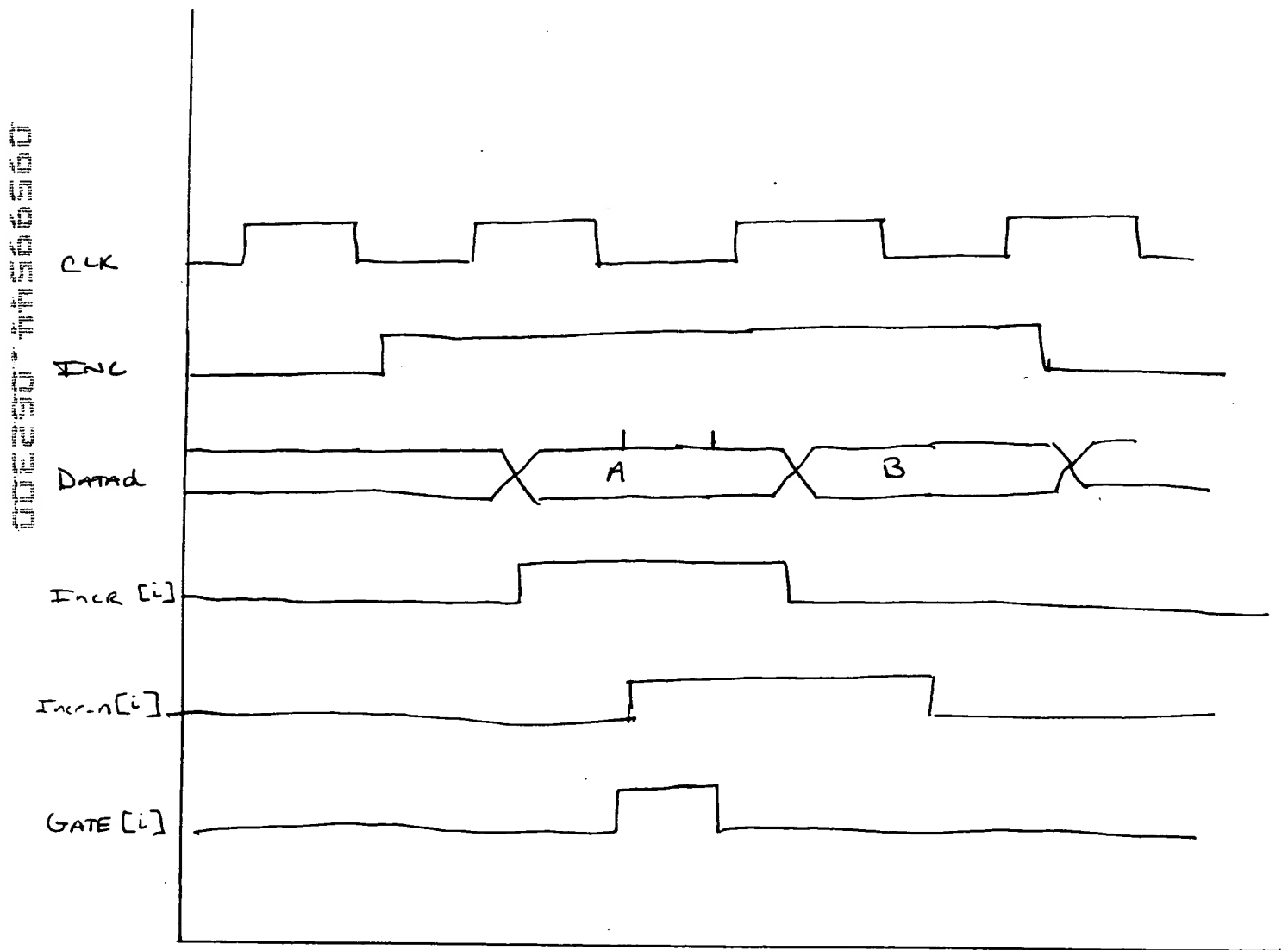


Figure 31

Figure 32



34-1 34-2 34-3 34-4 34-5 34-6 34-7 34-8 34-9 34-10

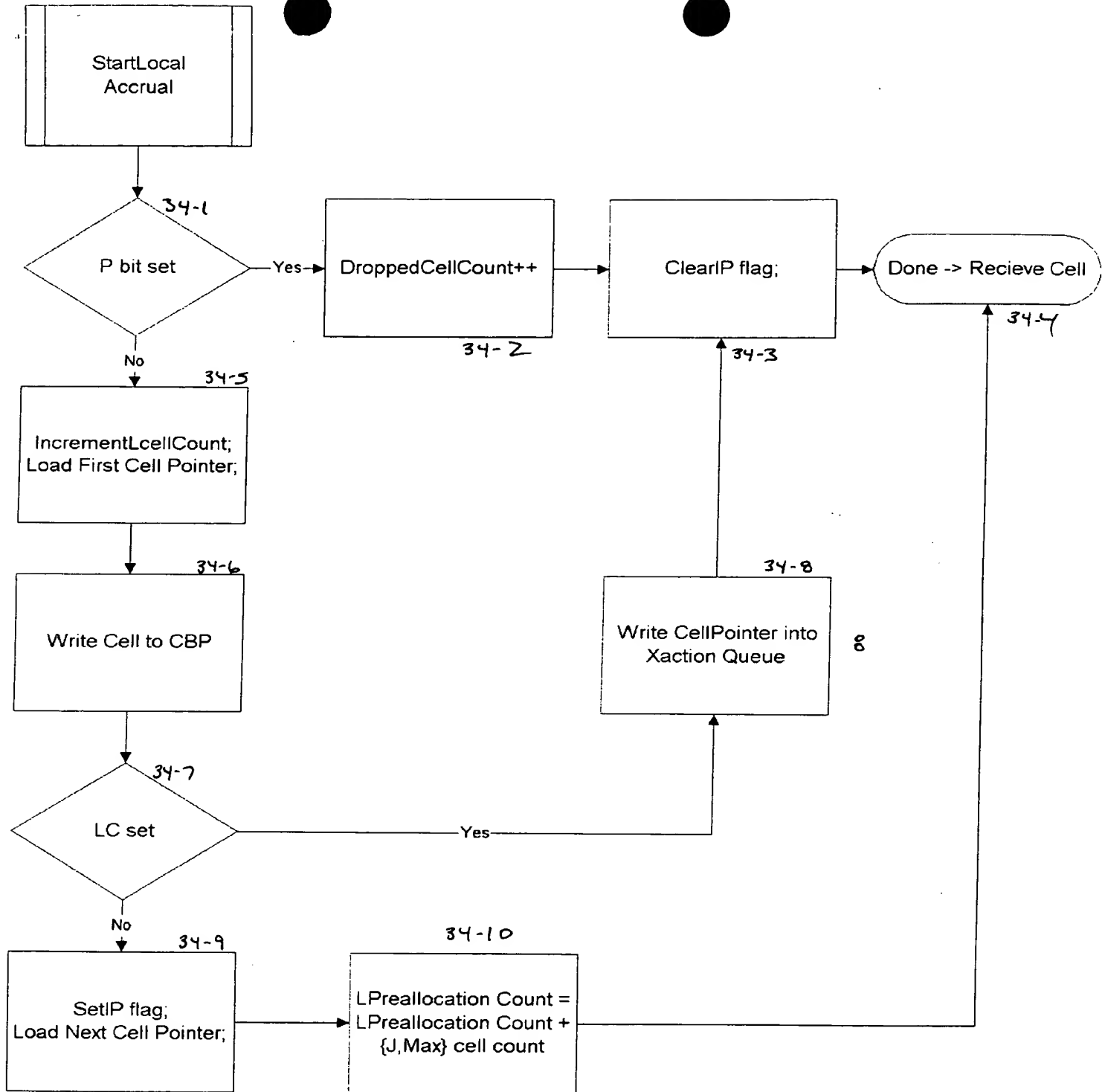


FIGURE 34

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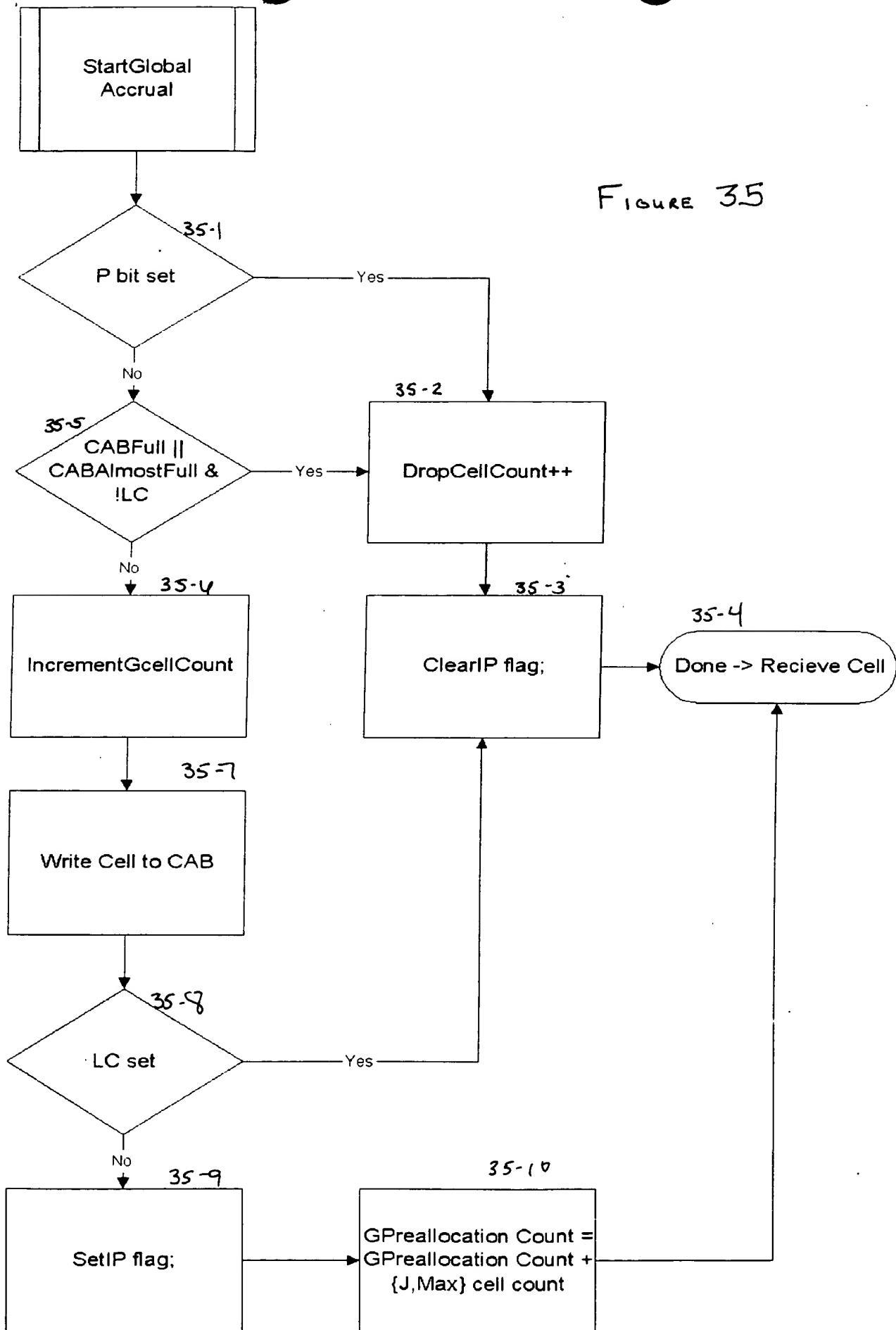


FIGURE 35

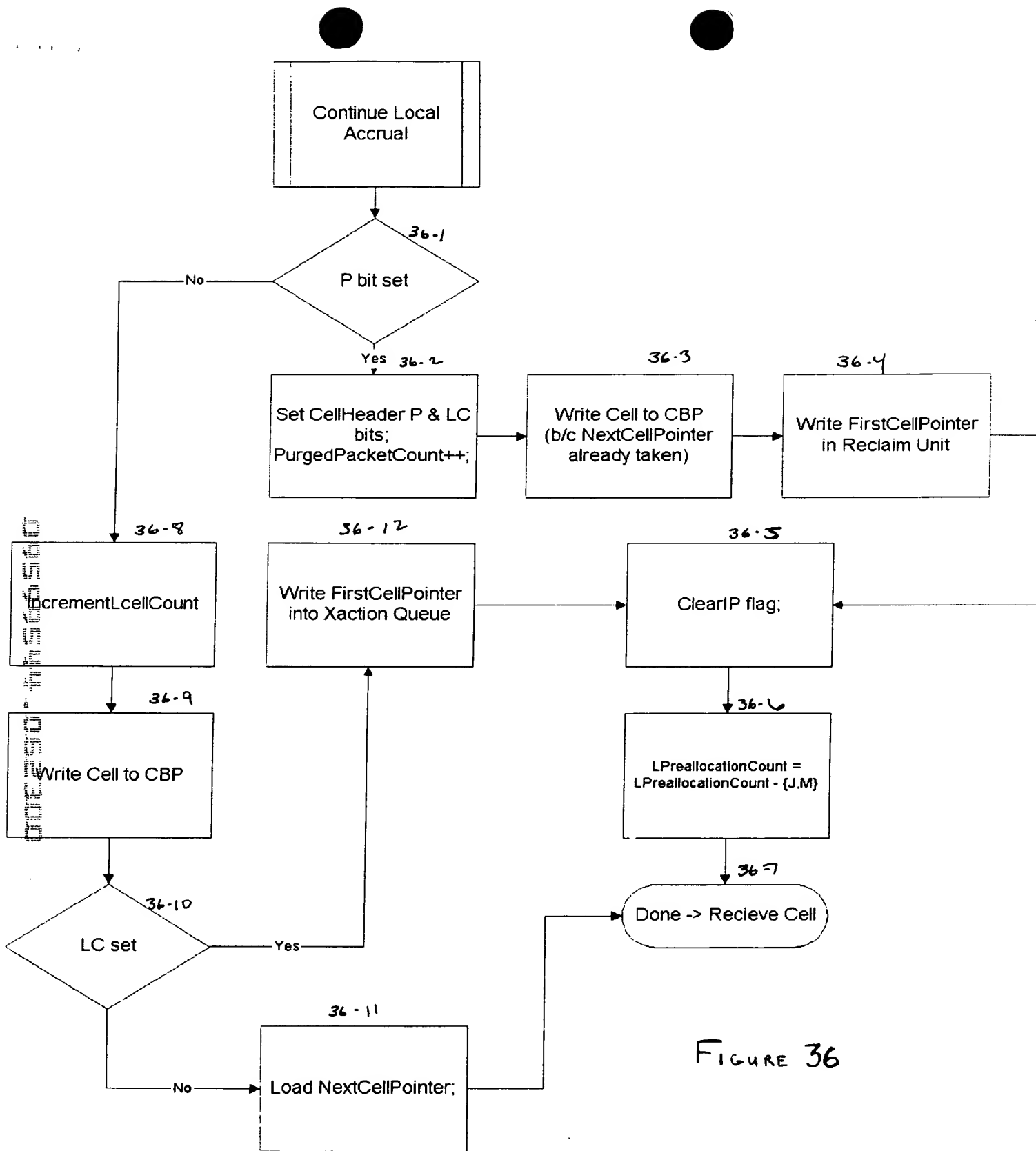


FIGURE 36

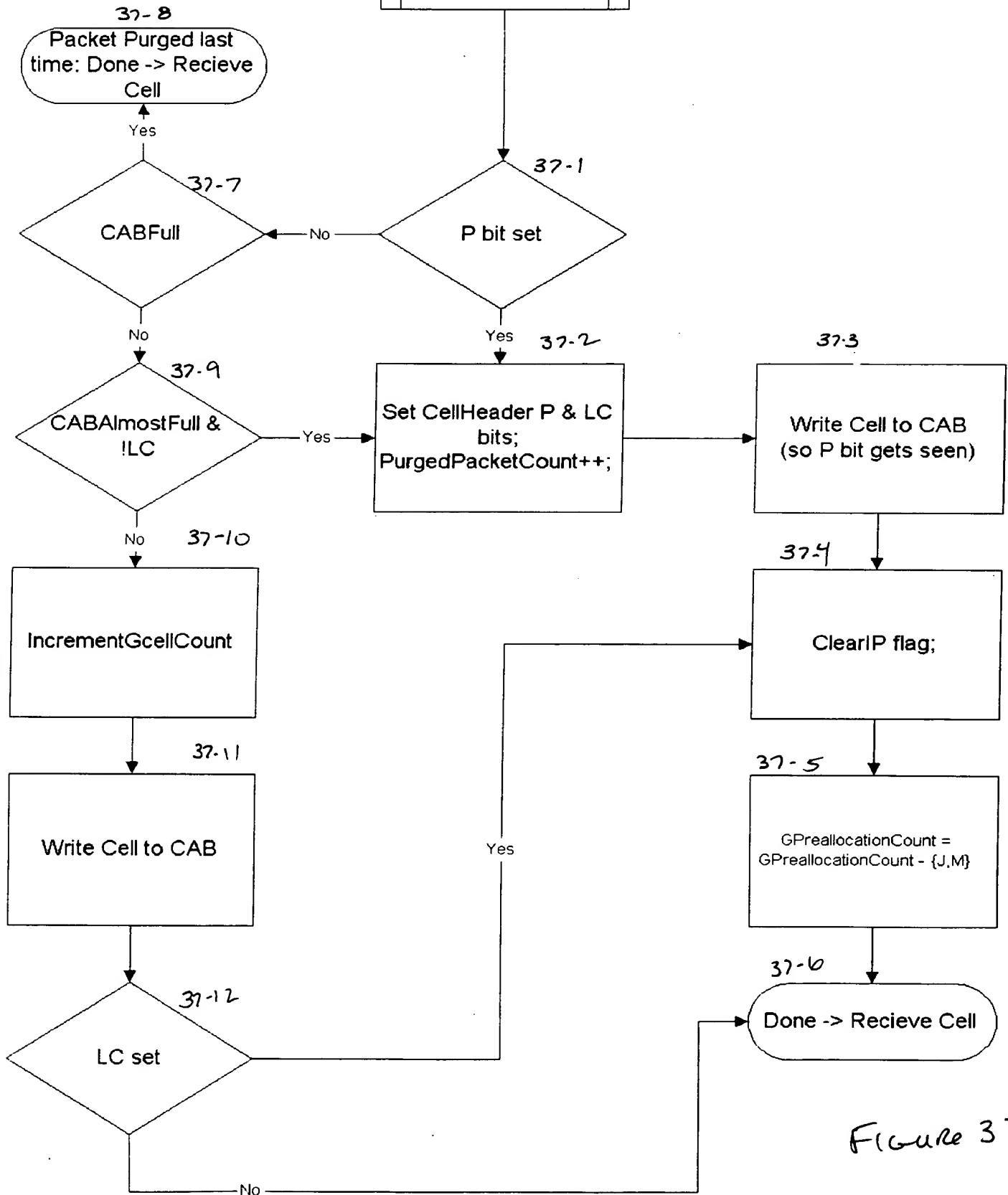
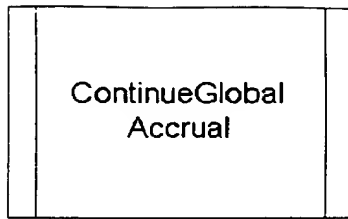


Figure 37

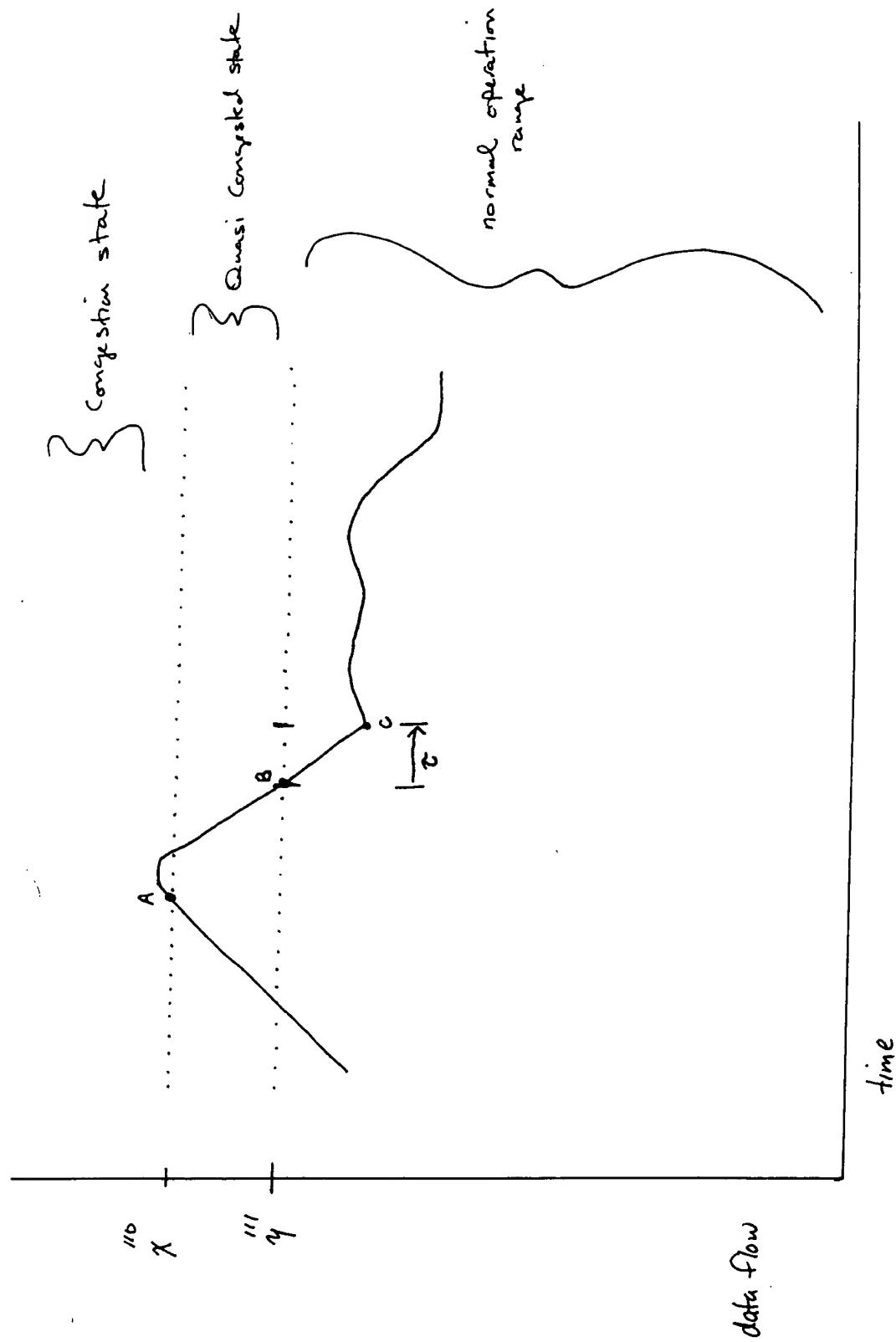


Figure 38

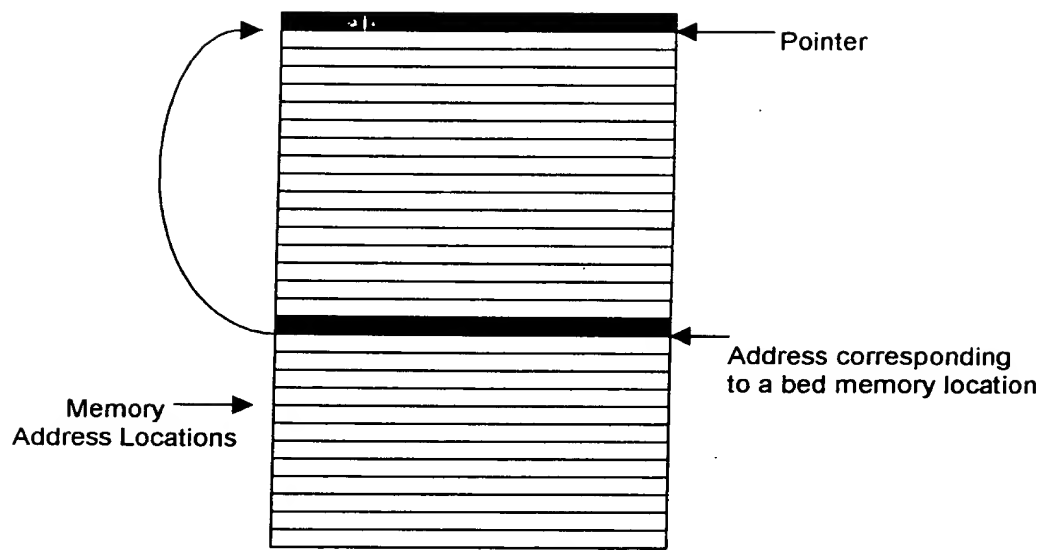


Figure 39